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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-08-23-78** **Date: 15-07-19**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drain at Kamakshamma Layout Main and Cross Roads in Chowdeshwari Ward No.02.
Agency	:	Sri.A.Kumar Reddy, No.44, Kaverinagara, A Block, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/31/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-07-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	13-07-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.95	_
2	Finess by Air permeablity method (m^2/kg,Min)	285.4	225m^2/kg, Min
3	Density (gm/cc)	3.12	_
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	240 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

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Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-08-23-78** **Date: 10-08-19**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drain at Kamakshamma Layout Main and Cross Roads in Chowdeshwari Ward No.02.
Agency	:	Sri.A.Kumar Reddy, No.44, Kaverinagara, A Block, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/31/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-07-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	13-07-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-08-23-78** **Date: 15-07-19**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drain at Kamakshamma Layout Main and Cross Roads in Chowdeshwari Ward No.02.
Agency	:	Sri.A.Kumar Reddy, No.44, Kaverinagara, A Block, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/31/2019-20
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	12-07-19
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	12-07-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	244	244	1.6	98.4	90-100
3	20 mm	5432	5676	37.8	62.2	30-70
4	10 mm	4332	10008	66.7	33.3	10-35
5	4.75 mm	4654	14662	97.7	2.3	0-5
6	Pan	338	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-08-23-78** **Date: 15-07-19**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drain at Kamakshamma Layout Main and Cross Roads in Chowdeshwari Ward No.02.
Agency	:	Sri.A.Kumar Reddy, No.44, Kaverinagara, A Block, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-09/W.O/31/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-07-19
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	12-07-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2560	2805	56.1	43.9	25-55
4	4.75 mm	2033	4838	96.8	3.2	0-10
5	Pan	162	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-08-23-78** **Date: 15-07-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.6	
3	Specific Gravity	2.66	–
4	Bulk Density(Loose) (Kg/l)	1.54	–
5	Bulk Density(Compacted) (Kg/l)	1.58	–
6	Water Absorption(%)	0.22	–
7	Aggregate crushing Value(%)	24.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2019-08-23-78** **Date: 15-07-19**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drain at Kamakshamma Layout Main and Cross Roads in Chowdeshwari Ward No.02.
Agency	:	Sri.A.Kumar Reddy, No.44, Kaverinagara, A Block, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/31/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-07-19
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	12-07-19
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2019-08-23-78** **Date: 17-07-19**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drain at Kamakshamma Layout Main and Cross Roads in Chowdeshwari Ward No.02.
Agency	:	Sri.A.Kumar Reddy, No.44, Kaverinagara, A Block, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/31/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-07-19
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	16-07-19

SLNo	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2019-08-23-78 Date: 25/07/2019
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drain at Kamakshamma Layout Main and Cross Roads in Chowdeshwari Ward No.02.
Agency	:	Sri.A.Kumar Reddy, No.44, Kaverinagara, A Block, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/31/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-07-19
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	18/07/2019	25/07/2019	150.15 X 149.38 X 150.49	22430	8.759	424.8	18.9	18.8
2	Drain Bottom Slab Concrete	M20	18/07/2019	25/07/2019	149.18 X 151.06 X 151.25	22535	8.473	419.9	18.6	
3	Drain Bottom Slab Concrete	M20	18/07/2019	25/07/2019	151.16 X 149.31 X 149.52	22569	8.282	428.3	19.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-08-23-78** **Date: 16/08/2019**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drain at Kamakshamma Layout Main and Cross Roads in Chowdeshwari Ward No.02.
Agency	:	Sri.A.Kumar Reddy, No.44, Kaverinagara, A Block, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/31/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-07-19
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/08/2019

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	18/07/2019	16/08/2019	150.68 X 151.30 X 151.84	22799	8.638	536.3	23.5	23.2
2	Drain Bottom Slab Concrete	M20	18/07/2019	16/08/2019	150.97 X 151.68 X 151.88	22898	8.232	515.9	22.5	
3	Drain Bottom Slab Concrete	M20	18/07/2019	16/08/2019	149.19 X 151.09 X 151.62	22542	8.130	530.8	23.5	

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Lab ID	:	CP-2019-08-23-78
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Project Name	:	Improvements to Roads and Drain at Kamakshamma Layout Main and Cross Roads in Chowdeshwari Ward No.02.
Agency	:	Sri.A.Kumar Reddy, No.44, Kaverinagara, A Block, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/31/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-07-19
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date: 25/07/2019

Date of test : 25/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	18/07/2019	25/07/2019	150.26 X 151.92 X 150.28	22827	8.759	411.2	18.0	18.4
2	Drain Bottom Slab Concrete	M20	18/07/2019	25/07/2019	149.22 X 151.34 X 150.87	22583	8.473	419.6	18.6	
3	Drain Bottom Slab Concrete	M20	18/07/2019	25/07/2019	149.07 X 149.26 X 149.40	22249	8.282	411.5	18.5	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	CP-2019-08-23-78 **Date: 16/08/2019**
stomer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
ddress	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drain at Kamakshamma Layout Main and Cross Roads in Chowdeshwari Ward No.02.
Agency	:	Sri.A.Kumar Reddy, No.44, Kaverinagara, A Block, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/31/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-07-19
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	16/08/2019

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	18/07/2019	16/08/2019	151.05 X 149.56 X 150.69	22592	8.638	536.3	23.7	23.1
2	Drain Bottom Slab Concrete	M20	18/07/2019	16/08/2019	151.82 X 150.93 X 150.62	22914	8.232	515.1	22.5	
3	Drain Bottom Slab Concrete	M20	18/07/2019	16/08/2019	151.47 X 149.39 X 149.27	22629	8.130	523.3	23.1	

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-08-23-78 Date: 30/07/2019

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drain at Kamakshamma Layout Main and Cross Roads in Chowdeshwari Ward No.02.

Agency : Sri.A.Kumar Reddy, No.44, Kaverinagara, A Block, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-09/W.O/31/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-07-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	Drain Side Wall Concrete	M20	23/07/2019	30/07/2019	150.58 X 149.84 X 150.10	22564	8.759	424.8	18.8	18.6
2	Drain Side Wall Concrete	M20	23/07/2019	30/07/2019	149.13 X 149.40 X 149.83	22280	8.473	416.5	18.7	
3	Drain Side Wall Concrete	M20	23/07/2019	30/07/2019	149.19 X 149.01 X 149.91	22230	8.282	403.7	18.2	

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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Samples will be disposed after 90 days from the date of issue of test certificate

AE-V A.E.E Asst.Engr AE-a

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig Date BANGALORE

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-08-23-78 **Date: 20/08/2019**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drain at Kamakshamma Layout Main and Cross Roads in Chowdeshwari Ward No.02.

Agency : Sri.A.Kumar Reddy, No.44, Kaverinagara, A Block, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-09/W.O/31/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-07-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	23/07/2019	20/08/2019	150.10 X 149.64 X 150.03	22461	8.638	534.4	23.8	23.2
2	Drain Side Wall Concrete	M20	23/07/2019	20/08/2019	149.00 X 150.60 X 151.64	22440	8.232	509.5	22.7	
3	Drain Side Wall Concrete	M20	23/07/2019	20/08/2019	151.64 X 149.92 X 150.84	22733	8.130	524.6	23.1	

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AE-2 A.E.E

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO Sig..... Date..... BANGALORE

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-08-23-78

Date: 30/07/2019

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drain at Kamakshamma Layout Main and Cross Roads in Chowdeshwari Ward No.02.

Agency : Sri.A.Kumar Reddy, No.44, Kaverinagara, A Block, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-09/W.O/31/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-07-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	23/07/2019	30/07/2019	150.89 X 149.50 X 151.48	22558	8.759	407.7	18.1	18.3
2	Drain Side Wall Concrete	M20	23/07/2019	30/07/2019	149.36 X 149.61 X 149.38	22346	8.473	412.8	18.5	
3	Drain Side Wall Concrete	M20	23/07/2019	30/07/2019	149.15 X 151.55 X 151.04	22604	8.282	417.6	18.5	

Note:
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AE-V A.E.E AE-02

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	CP-2019-08-23-78
		Date: 20/08/2019
stomer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
ddress	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drain at Kamakshamma Layout Main and Cross Roads in Chowdeshwari Ward No.02.
Agency	:	Sri.A.Kumar Reddy, No.44, Kaverinagara, A Block, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/31/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-07-19
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	20/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	23/07/2019	20/08/2019	151.15 X 150.30 X 150.41	22718	8.638	541.6	23.8	23.1
2	Drain Side Wall Concrete	M20	23/07/2019	20/08/2019	150.30 X 149.11 X 150.30	22412	8.232	500.6	22.3	
3	Drain Side Wall Concrete	M20	23/07/2019	20/08/2019	151.20 X 149.68 X 149.28	22631	8.130	526.4	23.3	

Note:
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AE-II A.E. AE-02

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Format No. CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2019-08-23-78** **Date: 26-07-19**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drain at Kamakshamma Layout Main and Cross Roads in Chowdeshwari Ward No.02.
Agency	:	Sri.A.Kumar Reddy, No.44, Kaverinagara, A Block, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/31/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-07-19
Sample Type /Size	:	Precast Cover Slab(250 mm)
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	22/07/2019

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	200.53	250.46	3.118	31577	240.8	7.6	7.1	8.9
2	Cover Slab-2	200.52	2250.51	3.124	31574	242.5	7.7	7.1	8.9
3	Cover Slab-3	200.51	250.49	3.116	31570	241.3	7.6	7.1	8.9

Note:

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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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CIVIL PRO BANGALORE Sig Date

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